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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,188

DATE: 07/08/2002

TIME: 10:09:37

Input Set : A:\PM4978.txt

Output Set: N:\CRF3\07082002\J087188.raw

4 <110> APPLICANT: Rose, Steven L.
 5 Oh, Esther H.
 6 Walsh, Michael
 8 <120> TITLE OF INVENTION: Methods of Diagnosing Liver Fibrosis
 11 <130> FILE REFERENCE: P-PM 4978
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/087,188
 C--> 13 <141> CURRENT FILING DATE: 2002-02-28
 13 <150> PRIOR APPLICATION NUMBER: US 10/087,188
 14 <151> PRIOR FILING DATE: 2002-02-28
 16 <160> NUMBER OF SEQ ID NOS: 4
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 2041
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <220> FEATURE:
 26 <221> NAME/KEY: CDS
 27 <222> LOCATION: (1)...(1932)
 29 <400> SEQUENCE: 1
 30 ccc gcc ttc cta gct gtc cca gtg gag aag gaa caa gcg cct cac tgc 48
 31 Pro Ala Phe Leu Ala Val Pro Val Glu Lys Glu Gln Ala Pro His Cys
 32 1 5 10 15
 34 atc tgt gca aac ggg cg<...>

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62	caa aac aca caa aat ctt ctc cag atg ccc tat ggc tgt gga gag cag	432
63	Gln Asn Thr Gln Asn Leu Leu Gln Met Pro Tyr Gly Cys Gly Glu Gln	
64	130 135 140	
66	aat atg gtc ctc ttt gct cct aac atc tat gta ctg gat tat cta aat	480
67	Asn Met Val Leu Phe Ala Pro Asn Ile Tyr Val Leu Asp Tyr Leu Asn	
68	145 150 155 160	
70	gaa aca cag cag ctt act cca gag atc aag tcc aag gcc att ggc tat	528
71	Glu Thr Gln Gln Leu Thr Pro Glu Ile Lys Ser Lys Ala Ile Gly Tyr	
72	165 170 175	
74	ctc aac act ggt tac cag aga cag ttg aac tac aaa cac tat gat ggc	576
75	Leu Asn Thr Gly Tyr Gln Arg Gln Leu Asn Tyr Lys His Tyr Asp Gly	
76	180 185 190	
78	tcc tac agc acc ttt ggg gag cga tat ggc agg aac cag ggc aac acc	624
79	Ser Tyr Ser Thr Phe Gly Glu Arg Tyr Gly Arg Asn Gln Gly Asn Thr	
80	195 200 205	
82	tgg ctc aca gcc ttt gtt ctg aag act ttt gcc caa gct cga gcc tac	672
83	Trp Leu Thr Ala Phe Val Leu Lys Thr Phe Ala Gln Ala Arg Ala Tyr	
84	210 215 220	
86	atc ttc atc gat gaa gca cac att acc caa gcc ctc ata tgg ctc tcc	720
87	Ile Phe Ile Asp Glu Ala His Ile Thr Gln Ala Leu Ile Trp Leu Ser	
88	225 230 235 240	
90	cag agg cag aag gac aat ggc tgt ttc agg agc tct ggg tca ctg ctc	768
91	Gln Arg Gln Lys Asp Asn Gly Cys Phe Arg Ser Ser Gly Ser Leu Leu	
92	245 250 255	
94	aac aat gcc ata aag gga gga gta gaa gat gaa gtg acc ctc tcc gcc	816
95	Asn Asn Ala Ile Lys Gly Gly Val Glu Asp Glu Val Thr Leu Ser Ala	
96	260 265 270	
98	tat atc acc atc gcc ctt ctg gag att cct ctc aca gtc act cac cct	864
99	Tyr Ile Thr Ile Ala Leu Leu Glu Ile Pro Leu Thr Val Thr His Pro	
100	275 280 285	
102	gtt gtc cgc aat gcc ctg ttt tgc ctg gag tca gcc tgg aag aca gca	912
103	Val Val Arg Asn Ala Leu Phe Cys Leu Glu Ser Ala Trp Lys Thr Ala	
104	290 295 300	
106	caa gaa ggg gac cat ggc agc cat gta tat acc aaa gac ctg ctg gcc	960
107	Gln Glu Gly Asp His Gly Ser His Val Tyr Thr Lys Asp Leu Leu Ala	
108	305 310 315 320	
110	tat gct ttt gcc ctg gca ggt aac cag gac aag agg aag gaa gta ctc	1008
111	Tyr Ala Phe Ala Leu Ala Gly Asn Gln Asp Lys Arg Lys Glu Val Leu	
112	325 330 335	
114	aag tca ctt aat gag gaa gct gtg aag aaa gac aac tct gtc cat tgg	1056
115	Lys Ser Leu Asn Glu Glu Ala Val Lys Lys Asp Asn Ser Val His Trp	
116	340 345 350	
118	gag cgc cct cag aaa ccc aag gca cca gtg ggg gat ttt tac gaa ccc	1104
119	Glu Arg Pro Gln Lys Pro Lys Ala Pro Val Gly Asp Phe Tyr Glu Pro	
120	355 360 365	
122	cag gct ccc tct gct gag gtg gag atg aca tcc tat gtg ctc ctc gct	1152
123	Gln Ala Pro Ser Ala Glu Val Glu Met Thr Ser Tyr Val Leu Leu Ala	
124	370 375 380	
126	tat ctc acg gcc cag cca gcc cca acc tcg gag gac ctg acc tct gca	1200

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127	Tyr Leu Thr Ala Gln Pro Ala Pro Thr Ser Glu Asp Leu Thr Ser Ala				
128	385	390	395	400	
130	acc aac atc gtg aag tgg atc acg aag cag cag aat gcc cag ggc ggt				1248
131	Thr Asn Ile Val Lys Trp Ile Thr Lys Gln Gln Asn Ala Gln Gly Gly				
132	405	410	415		
134	tcc tcc tcc acc cag gac aca gtg gtg gct ctc cat gct ctg tcc aaa				1296
135	Phe Ser Ser Thr Gln Asp Thr Val Val Ala Leu His Ala Leu Ser Lys				
136	420	425	430		
138	tat gga gca gcc aca ttt acc agg act ggg aag gct gca cag gtg act				1344
139	Tyr Gly Ala Ala Thr Phe Thr Arg Thr Gly Lys Ala Ala Gln Val Thr				
140	435	440	445		
142	atc cag tct tca ggg aca ttt tcc agc aaa ttc caa gtg gac aac aac				1392
143	Ile Gln Ser Ser Gly Thr Phe Ser Ser Lys Phe Gln Val Asp Asn Asn				
144	450	455	460		
146	aac cgc ctg tta ctg cag cag gtc tca ttg cca gag ctg cct ggg gaa				1440
147	Asn Arg Leu Leu Leu Gln Gln Val Ser Leu Pro Glu Leu Pro Gly Glu				
148	465	470	475	480	
150	tac agc atg aaa gtg aca gga gaa gga tgt gtc tac ctc cag aca tcc				1488
151	Tyr Ser Met Lys Val Thr Gly Glu Gly Cys Val Tyr Leu Gln Thr Ser				
152	485	490	495		
154	ttg aaa tac aat att ctc cca gaa aag gaa gag ttc ccc ttt gct tta				1536
155	Leu Lys Tyr Asn Ile Leu Pro Glu Lys Glu Glu Phe Pro Phe Ala Leu				
156	500	505	510		
158	gga gtg cag act ctg cct caa act tgt gat gaa ccc aaa gcc cac acc				1584
159	Gly Val Gln Thr Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala His Thr				
160	515	520	525		
162	agc ttc caa atc tcc cta agt gtc agt tac aca ggg agc cgc tct gcc				1632
163	Ser Phe Gln Ile Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala				
164	530	535	540		
166	tcc aac atg gcg atc gtt gat gtg aag atg gtc tct ggc ttc att ccc				1680
167	Ser Asn Met Ala Ile Val Asp Val Lys Met Val Ser Gly Phe Ile Pro				
168	545	550	555	560	
170	ctg aag cca aca gtg aaa atg ctt gaa aga tct aac cat gtg agc cgg				1728
171	Leu Lys Pro Thr Val Lys Met Leu Glu Arg Ser Asn His Val Ser Arg				
172	565	570	575		
174	aca gaa gtc agc aac cat gtc ttg att tac ctt gat aag gtg tca				1776
175	Thr Glu Val Ser Ser Asn His Val Leu Ile Tyr Leu Asp Lys Val Ser				
176	580	585	590		
178	aat cag aca ctg agc ttg ttc acg gtt ctg caa gat gtc cca gta				1824
179	Asn Gln Thr Leu Ser Leu Phe Phe Thr Val Leu Gln Asp Val Pro Val				
180	595	600	605		
182	aga gat ctg aaa cca gcc ata gtg aaa gtc tat gat tac tac gag acg				1872
183	Arg Asp Leu Lys Pro Ala Ile Val Lys Val Tyr Asp Tyr Tyr Glu Thr				
184	610	615	620		
186	gat gag ttt gca att gct gag tac aat gct cct tgc agc aaa gat ctt				1920
187	Asp Glu Phe Ala Ile Ala Glu Tyr Asn Ala Pro Cys Ser Lys Asp Leu				
188	625	630	635	640	
190	gga aat gct tga agaccacaag gctgaaaaagt gctttgctgg agtcctgttc				1972
191	Gly Asn Ala *				

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194 tcagagctcc acagaagaca cgtgttttg tatcttaaa gacttgatga ataaacactt 2032
195 tttctggc 2041
197 <210> SEQ ID NO: 2
198 <211> LENGTH: 643
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 2
203 Pro Ala Phe Leu Ala Val Pro Val Glu Lys Glu Gln Ala Pro His Cys
204 1 5 10 15
205 Ile Cys Ala Asn Gly Arg Gln Thr Val Ser Trp Ala Val Thr Pro Lys
206 20 25 30
207 Ser Leu Gly Asn Val Asn Phe Thr Val Ser Ala Glu Ala Leu Glu Ser
208 35 40 45
209 Gln Glu Leu Cys Gly Thr Glu Val Pro Ser Val Pro Glu His Gly Arg
210 50 55 60
211 Lys Asp Thr Val Ile Lys Pro Leu Leu Val Glu Pro Glu Gly Leu Glu
212 65 70 75 80
213 Lys Glu Thr Thr Phe Asn Ser Leu Leu Cys Pro Ser Gly Gly Glu Val
214 85 90 95
215 Ser Glu Glu Leu Ser Leu Lys Leu Pro Pro Asn Val Val Glu Glu Ser
216 100 105 110
217 Ala Arg Ala Ser Val Ser Val Leu Gly Asp Ile Leu Gly Ser Ala Met
218 115 120 125
219 Gln Asn Thr Gln Asn Leu Leu Gln Met Pro Tyr Gly Cys Gly Glu Gln
220 130 135 140
221 Asn Met Val Leu Phe Ala Pro Asn Ile Tyr Val Leu Asp Tyr Leu Asn
222 145 150 155 160
223 Glu Thr Gln Gln Leu Thr Pro Glu Ile Lys Ser Lys Ala Ile Gly Tyr
224 165 170 175
225 Leu Asn Thr Gly Tyr Gln Arg Gln Leu Asn Tyr Lys His Tyr Asp Gly
226 180 185 190
227 Ser Tyr Ser Thr Phe Gly Glu Arg Tyr Gly Arg Asn Gln Gly Asn Thr
228 195 200 205
229 Trp Leu Thr Ala Phe Val Leu Lys Thr Phe Ala Gln Ala Arg Ala Tyr
230 210 215 220
231 Ile Phe Ile Asp Glu Ala His Ile Thr Gln Ala Leu Ile Trp Leu Ser
232 225 230 235 240
233 Gln Arg Gln Lys Asp Asn Gly Cys Phe Arg Ser Ser Gly Ser Leu Leu
234 245 250 255
235 Asn Asn Ala Ile Lys Gly Gly Val Glu Asp Glu Val Thr Leu Ser Ala
236 260 265 270
237 Tyr Ile Thr Ile Ala Leu Leu Glu Ile Pro Leu Thr Val Thr His Pro
238 275 280 285
239 Val Val Arg Asn Ala Leu Phe Cys Leu Glu Ser Ala Trp Lys Thr Ala
240 290 295 300
241 Gln Glu Gly Asp His Gly Ser His Val Tyr Thr Lys Asp Leu Leu Ala
242 305 310 315 320
243 Tyr Ala Phe Ala Leu Ala Gly Asn Gln Asp Lys Arg Lys Glu Val Leu
244 325 330 335

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245 Lys Ser Leu Asn Glu Glu Ala Val Lys Lys Asp Asn Ser Val His Trp
 246 340 345 350
 247 Glu Arg Pro Gln Lys Pro Lys Ala Pro Val Gly Asp Phe Tyr Glu Pro
 248 355 360 365
 249 Gln Ala Pro Ser Ala Glu Val Glu Met Thr Ser Tyr Val Leu Leu Ala
 250 370 375 380
 251 Tyr Leu Thr Ala Gln Pro Ala Pro Thr Ser Glu Asp Leu Thr Ser Ala
 252 385 390 395 400
 253 Thr Asn Ile Val Lys Trp Ile Thr Lys Gln Gln Asn Ala Gln Gly Gly
 254 405 410 415
 255 Phe Ser Ser Thr Gln Asp Thr Val Val Ala Leu His Ala Leu Ser Lys
 256 420 425 430
 257 Tyr Gly Ala Ala Thr Phe Thr Arg Thr Gly Lys Ala Ala Gln Val Thr
 258 435 440 445
 259 Ile Gln Ser Ser Gly Thr Phe Ser Ser Lys Phe Gln Val Asp Asn Asn
 260 450 455 460
 261 Asn Arg Leu Leu Leu Gln Gln Val Ser Leu Pro Glu Leu Pro Gly Glu
 262 465 470 475 480
 263 Tyr Ser Met Lys Val Thr Gly Glu Gly Cys Val Tyr Leu Gln Thr Ser
 264 485 490 495
 265 Leu Lys Tyr Asn Ile Leu Pro Glu Lys Glu Glu Phe Pro Phe Ala Leu
 266 500 505 510
 267 Gly Val Gln Thr Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala His Thr
 268 515 520 525
 269 Ser Phe Gln Ile Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala
 270 530 535 540
 271 Ser Asn Met Ala Ile Val Asp Val Lys Met Val Ser Gly Phe Ile Pro
 272 545 550 555 560
 273 Leu Lys Pro Thr Val Lys Met Leu Glu Arg Ser Asn His Val Ser Arg
 274 565 570 575
 275 Thr Glu Val Ser Ser Asn His Val Leu Ile Tyr Leu Asp Lys Val Ser
 276 580 585 590
 277 Asn Gln Thr Leu Ser Leu Phe Phe Thr Val Leu Gln Asp Val Pro Val
 278 595 600 605
 279 Arg Asp Leu Lys Pro Ala Ile Val Lys Val Tyr Asp Tyr Tyr Glu Thr
 280 610 615 620
 281 Asp Glu Phe Ala Ile Ala Glu Tyr Asn Ala Pro Cys Ser Lys Asp Leu
 282 625 630 635 640
 283 Gly Asn Ala
 287 <210> SEQ ID NO: 3
 288 <211> LENGTH: 782
 289 <212> TYPE: DNA
 290 <213> ORGANISM: Homo sapiens
 292 <220> FEATURE:
 293 <221> NAME/KEY: CDS
 294 <222> LOCATION: (63)...(686)
 296 <400> SEQUENCE: 3
 297 aggggcctta gcgtgccgca tcgcccagat ccagcgccca gagagacacc agagaaccca 60
 298 cc atg gcc ccc ttt gag ccc ctg gct tct ggc atc ctg ttg ctg 107

VERIFICATION SUMMARY

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:354 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3